



App. No. 10/661,170

Docket No. 58035-013100

Certificate of Mailing

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October 10, 2003  
Date

Miyabi Grace

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**Application No.** 10/661,170

**Group Art Unit:**

**Applicant(s):** Richard A. Holl

**Examiner:**

**Filing Date:** September 11, 2003

**Docket No.** 58035-013100

**Title:** METHODS AND APPARATUS FOR HIGH-SHEAR MIXING AND REACTING OF MATERIALS

**Customer No.** 33717

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT [37 C.F.R. § 1.56]**

Dear Sir:

With regard to the above-identified application, the items of information listed on the enclosed Form 1449 are brought to the attention of the Examiner.

No representation is made that a reference is "prior art" within the meaning of 35 U.S.C. §§ 102 and 103 and Applicants reserve the right, pursuant to 37 C.F.R. § 1.131 or otherwise, to establish that the reference(s) are not "prior art." Moreover, Applicants do not represent that a reference has been thoroughly reviewed or that any relevance of any portion of a reference is intended.

This Information Disclosure Statement is being submitted:

1. Within three months of the filing date of a national application other than a continued prosecution application under 37 C.F.R. § 1.53(d), or within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application; or before the mailing date of a first Office action on the merits, and therefore, Applicant believes no fee is required;

- 2. After the period specified in paragraph (1) above of this section, but before the mailing date of either a final action under 37 C.F.R. § 1.113, or a notice of allowance under 37 C.F.R. § 1.311, whichever occurs first, and is accompanied by either:
  - a. A statement that:
    - (i) Each item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months before the filing of the information disclosure statement; or
    - (ii) No item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the statement after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months before the filing of the information disclosure statement;
  - b. The fee for filing an Information Disclosure Statement under 37 C.F.R. § 1.17(p) is \$180.00.
- 3. After the period specified in paragraph (2) of this section, but on or before payment of the issue fee and is accompanied by:
  - a. A statement that:
    - (i) Each item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months before the filing of the information disclosure statement; or

(ii) No item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the statement after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months before the filing of the information disclosure statement;

b. A petition requesting consideration of the information disclosure statement; and

c. The petition fee set forth in 37 C.F.R. § 1.17(i).

Consideration of the items listed is respectfully requested. Pursuant to the provisions of M.P.E.P. 609, it is requested that the Examiner return a copy of the attached Form 1449, marked as being considered and initialed by the Examiner, to the undersigned with the next official communication.

No fee is due. However, the Commissioner is hereby authorized to charge any required fee in connection with the submission of this paper, or to credit any overpayment to Deposit Account No. 50-2638.

Respectfully submitted,

GREENBERG TRAURIG, LLP

By 

Claude Nassif, Ph.D.  
Reg. No. 52,061  
Tel.: (310) 586-7828

OCT 20 2003

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Application Number

10/661,170

Filing Date

September 11, 2003

Applicant(s)

Richard A. Holl

Group Art Unit

Examiner Name

## U.S. PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	0,591,494	Oct 12, 1897	Pond			May 25, 1896
	2,261,257	Nov 4, 1941	Kiesskalt et al.	241	228	Apr 21, 1938
	2,295,740	Sep 15, 1942	Keen	261	93	Jan 19, 1940
	2,314,598	Mar 23, 1943	Phelan	62	114	Aug 11, 1941
	2,474,006	Jun 21, 1949	Maycock	261	83	Apr 11, 1949
	2,577,247	Dec 4, 1951	Irwin	99	221	Jan 3, 1948
	3,095,349	Jun 25, 1963	Rich	162	236	Feb 10, 1960
	3,215,642	Nov 2, 1965	Levy	252	359	May 6, 1963
	3,595,531	Jul 27, 1971	Williams et al.	259	7	Nov 4, 1969
	3,841,814	Oct 15, 1974	Eckhardt	425	208	Apr 3, 1972
	3,870,082	Mar 11, 1975	Holl	138	40	Mar 11, 1975
	4,000,993	Jan 4, 1977	Holl	55	94	Nov 10, 1975
	4,057,331	Nov 8, 1977	Ong et al.	350	285	Nov 19, 1975
	4,071,225	Jan 31, 1978	Holl	366	114	Mar 4, 1976
	4,073,567	Feb 14, 1978	Lakerveld et al.	350	6.5	Dec 8, 1975
	4,174,907	Nov 20, 1979	Suh et al.	366	279	Sep 1, 1978
	4,198,383	Apr 15, 1980	Konsetov et al.	422	134	Aug 21, 1978
	4,251,576	Feb 17, 1981	Osborn et al.	428	331	Feb 4, 1980
	4,287,075	Sep 1, 1981	Fujiwara et al.	501	135	Apr 16, 1979
	4,306,165	Dec 15, 1981	Kitabayashi et al.	310	59	Jul 18, 1979
	4,311,570	Jan 19, 1982	Cowen et al.	204	157.1	Feb 21, 1979
	4,315,172	Feb 9, 1982	Intichar et al.	310	53	Dec 12, 1979
	4,335,180	Jun 15, 1982	Traut	428	303	Dec 8, 1980
	4,405,491	Sep 20, 1984	Sando et al.	252	359	Sep 29, 1981
	4,556,467	Dec 3, 1985	Kuhn et al.	241	193	Jun 22, 1981
	4,593,754	Jun 10, 1986	Holl	165	109.1	Aug 21, 1985
	4,670,103	Jun 2, 1987	Holl	165	109.1	Jun 3, 1985
	4,708,198	Nov 24, 1987	Holl	165	109.1	Mar 19, 1985
	4,744,521	May 17, 1988	Singer et al.	241	66	May 4, 1984
	4,769,131	Sep 6, 1988	Noll et al.	210	85	Oct 3, 1986
	4,778,631	Oct 18, 1988	Cobbs, Jr. et al.	261	128	Apr 9, 1987
	4,784,218	Nov 15, 1988	Holl	165	109.1	Aug 22, 1986
	4,889,909	Dec 26, 1989	Besecke et al.	528	125	Jul 19, 1988
	4,921,473	May 1, 1990	Lee et al.	494	27	Feb 2, 1989
	4,930,708	Jun 5, 1990	Chen	241	65	Jun 23, 1989
	4,983,307	Jan 8, 1991	Nesathurai	210	748	Aug 2, 1989
	5,154,973	Oct 13, 1992	Imagawa et al.	428	325	Dec 4, 1990

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 OCT 20 2003 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Attorney Docket Number 58035-013100
		Application Number 10/661,170
		Filing Date September 11, 2003
		Applicant(s) Richard A. Holl
		Group Art Unit
		Examiner Name

#### U.S. PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,198,137	Mar 30, 1993	Rutz et al.	252	62.54	May 17, 1991
	5,204,416	Apr 20, 1993	Mercer et al.	525	390	Apr 7, 1992
	5,212,278	May 18, 1993	Pfandner.	528	171	Mar 13, 1990
	5,227,637	Jul 13, 1993	Herold et al.	250	438	Apr 3, 1992
	5,268,140	Dec 7, 1993	Rutz et al.	75	246	Jan 31, 1992
	5,279,463	Jan 18, 1994	Holl	241	1	Aug 26, 1992
	5,300,019	Apr 5, 1994	Bischof et al.	604	4	Dec 17, 1992
	5,335,992	Aug 9, 1994	Holl	366	348	Mar 15, 1993
	5,358,775	Oct 25, 1994	Horn, III.	428	209	Jul 29, 1993
	5,370,824	Dec 6, 1994	Nagano et al.	366	279	Nov 13, 1991
	5,370,999	Dec 6, 1994	Stuart	435	99	Dec 17, 1992
	5,391,603	Feb 21, 1995	Wessel et al.	524	396	Apr 21, 1993
	5,395,914	Mar 7, 1995	Wilharm et al.	528	125	May 26, 1993
	5,449,652	Sep 12, 1995	Swartz et al.	501	134	Sep 20, 1994
	5,471,037	Nov 28, 1995	Goethel et al.	219	750	Aug 18, 1992
	5,484,647	Jan 16, 1996	Nakatani et al.	428	209	Sep 20, 1994
	5,506,049	Apr 9, 1996	Swei et al.	428	323	Dec 30, 1993
	5,523,169	Jun 4, 1996	Rafferty et al.	428	551	Sep 13, 1994
	5,538,191	Jul 23, 1996	Holl	241	1	Aug 24, 1993
	5,552,210	Sep 3, 1996	Horn, III et al.	428	209	Nov 7, 1994
	5,554,323	Sep 10, 1996	Tsukimi et al.	264	4.7	Nov 4, 1993
	5,558,820	Sep 24, 1996	Nagano et al.	264	4.1	May 30, 1995
	5,576,386	Nov 19, 1996	Kempter et al.	526	88	Jan 28, 1993
	5,658,485	Aug 19, 1997	Cava et al.	252	62.9	Oct 3, 1995
	5,658,994	Aug 19, 1997	Burgoyne, Jr. et al.	525	390	Jul 13, 1995
	5,659,006	Aug 19, 1997	White	528	212	Dec 14, 1995
	5,674,004	Oct 7, 1997	Takeuchi	366	69	Jul 7, 1995
	5,693,742	Dec 2, 1997	White et al.	528	212	Sep 15, 1995
	5,739,193	Apr 14, 1998	Walpita et al.	524	413	May 7, 1996
	5,754,936	May 19, 1998	Jansson	419	10	Jul 17, 1995
	5,855,865	Jan 5, 1999	Lambert et al.	424	9.52	Jul 2, 1997
	5,874,516	Feb 23, 1999	Burgoyne, Jr. et al.	528	219	Jul 13, 1995
	5,929,138	Jul 27, 1999	Mercer et al.	523	220	Nov 5, 1996
	5,974,867	Nov 2, 1999	Forster et al	73	61.41	Oct 30, 1997
	5,998,533	Dec 7, 1999	Weber et al.	524	540	Jul 9, 1996
	6,039,784	Mar 21, 2000	Luk	75	231	Mar 12, 1997
	6,040,935	Mar 21, 2000	Michalicek	359	198	Jan 25, 1999

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EXAMINER SIGNATURE	DATE CONSIDERED
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EXAMINER INITIALS	DOCUMENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6,074,472	Jun 13, 2000	Jachow et al.	106	436	Aug 8, 1996
	6,093,636	Jul 25, 2000	Carter et al.	438	623	Jul 8, 1998
	6,134,950	Oct 24, 2000	Forster et al.	73	54.01	Aug 12, 1999
	6,143,052	Nov 7, 2000	Kiyokawa et al.	75	230	Jun 29, 1998
	6,159,264	Dec 12, 2000	Holl	75	230	Jul 2, 1999
	6,176,991	Jan 23, 2001	Nordman	204	601	Nov 12, 1998
	6,190,034	Feb 20, 2001	Nielsen et al.	366	336	Oct 1, 1996
	6,281,433	Aug 28, 2001	Decker et al.	174	35	Aug 3, 1999
	6,391,082	May 21, 2002	Holl	75	230	Jul 2, 1999
	6,464,936	Oct 15, 2002	Mowat et al.	422	22	Aug 18, 1997
	6,471,392	Oct 29, 2002	Holl et al.	366	279	Mar 7, 2001
	2001/0030295	Oct 18, 2001	Holl	250	492.23	May 10, 2001
	2002/0038582	Apr 4, 2002	Holl	75	230	Jul 2, 1999
	2002/0078793	Jun 27, 2003	Holl	75	230	Oct 5, 2001
	2002/0089074	Jul 11, 2002	Holl	261	92	Jun 27, 2001
	2002/0148640	Oct 17, 2002	Holl	174	256	Apr 11, 2002
	2003/0043690	Mar 6, 2003	Holl	366	279	Oct 3, 2002
	2003/0066624	Apr 10, 2003	Holl	165	47	Sep 13, 2002

#### FOREIGN PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	DE 299 02 348	Apr 22, 1999	Germany	G 02 B	26/00	No	No
	DE 299 19 570	Jan 20, 2000	Germany	B 29 C	45/74	No	No
	EP 0 219 357	Apr 22, 1987	European Patent Office	G 02 B	26/08		
	EP 0 660 336	Jun 28, 1995	European Patent Office	H 01 B	3/04	No	No
	GB 891 152	Mar 14, 1962	Great Britain	B 02 D			
	GB 1 232 644	May 19, 1971	Great Britain	B 02 C	1/02		
	GB 1 252 192	Nov 3, 1971	Great Britain	H 02 K	5/20		
	GB 2 192 558	Jan 20, 1988	Great Britain	B 01 F	3/08		
	JP 58 144549	Aug 27, 1983	Japan	H 02 K	1/18	Yes	
	JP 3 279991	Dec 11, 1991	Japan	G 09 F	3/02	No	
	JP 11322920	Nov 26, 1999	Japan	C 08 G	65/38	Yes	No
	JP 2000-213876	Aug 2, 2000	Japan	B 29 C	47/88	Yes	No
	SU 369 939	Apr 18, 1973	Soviet Union	241	1	No	No
	SU 957 991	Sep 15, 1982	Soviet Union	241	301	No	
	SU 1 737 241	May 30, 1992	Soviet Union	F 27 B	7/38	Yes	

EXAMINER SIGNATURE	DATE CONSIDERED	
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	10/661,170
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EXAMINER INITIALS	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
				YES	NO		
	WO 97 12665	Apr 10, 1997	WIPO	B 01 F	5/00		
	WO 97 42639	Nov 13, 1997	WIPO	H 01 B	3/30		
	WO 98 49675	Nov 5, 1998	WIPO	G 11 B	5/09		
	WO 02 071451	Sep 12, 2002	WIPO	H 01 L			
	WO 03 022415	Mar 20, 2003	WIPO	B 01 F	13/00		

#### OTHER DOCUMENTS

EXAMINER INITIALS	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	PCT International Search Report for PCT/US00/18038, Holl Technologies Company, completed Sep 17, 2000, mailed Oct 6, 2000
	PCT International Search Report for PCT/US01/15258, Holl Technologies Company, completed Jan 24, 2002, mailed Feb 1, 2002
	PCT International Search Report for PCT/US01/20635, Holl Technologies Company, completed Jan 24, 2002, mailed Feb 1, 2002
	PCT International Search Report for PCT/US01/23657, Holl Technologies Company, completed Apr 25, 2002, mailed May 6, 2002
	PCT International Search Report for PCT/US02/11575, Holl Technologies Company, completed Jul 12, 2002, mailed Aug 6, 2002
	PCT International Search Report for PCT/US02/29093, Holl Technologies Company, completed Mar 6, 2003, mailed Mar 17, 2003
	PCT International Search Report for PCT/US02/31076, Holl Technologies Company, completed Dec 11, 2002, mailed Dec 27, 2002
	PCT International Search Report for PCT/US02/05361, Holl Technologies Company, completed May 17 2002, mailed Jun 5, 2002
	US 6,159,264, 12/2000, Holl (withdrawn)
	www.pooleplastics.com/production.html, Poole Plastics and Tooling Company, Production Capabilities; Feb. 15, 2001
	Zlotorzynski, "The Application of Microwave Radiation to Analytical and Environmental Chemistry," Critical Reviews in Analytical Chemistry; Vol. 25, No. 1; pp. 43-76; 1995
	"Microwave Heating Mechanisms;" Microwave Chemistry
	"A Basic Introduction to Microwave Chemistry;" Microwave Chemistry
	"Fast and Furious;" Microwave Chemistry
	"Microwave Heating Applied to Polymers;" Microwave Chemistry
	"Application of Microwaves to Organic Chemistry;" Microwave Chemistry
	"Microwave Chemistry in Liquid Media;" Microwave Chemistry
	"Microwave Heating and Intercalation Chemistry;" Microwave Chemistry